

ABSTRACT

An antenna switch module includes a filter which reduces transmission loss so as to achieve high attenuation in a wide band at harmonic frequencies. This antenna switch module includes the filter, an antenna switch circuit and an adjustment line. The filter passes fundamental frequencies and has an attenuation pole. The antenna switch circuit switches antennas. The adjustment line is connected between the filter and the antenna switch circuit. The adjustment line adjusts its length, and when the filter and the antenna switch circuit are directly connected with each other at a connection point, prevents the impedance when the filter is seen from the connection point and the impedance when the antenna switch circuit is seen from the connection point from becoming complex conjugates of each other at the harmonic frequencies.